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Montana Department of Health and Environmental Sciences
MONTHLY ACTIVITIES REPORT OF THE AIR QUALITY BUREAU

July 1976

STATE DOCUMENTS

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1. Highlights

Work on NSPS/NESHAPS rule amendments.

Inspection of Sumitomo Chemical's aluminum plant in Japan.

Review and partial certification of Anaconda Aluminum tax certification application.

2. Ambient Air Quality Network

Standards Exceeded:

Ozone - 27th & Montana, Billings, 9 viol. fed. prim. std.
TSP* - Morton Residence, Big Horn Co., 1 viol. fed. sec. std.
Fire Station #1, Great Falls, 1 viol. fed. sec. std.
SO_2 - East stack, East Helena, 1 viol. MT 1-hr. std.
Microwave, East Helena, 10 viol. MT 1-hr. std.
Laurel E. Cenex, Billings, 15 viol. MT 1-hr. std.
Laurel Water Pit, Laurel, 3 viol. MT 1-hr. std.
Post Office, Anaconda, 14 viol. MT 1-hr. std.
Mill Creek, Anaconda, 1 viol. MT 1-hr. std.
Hiway Junction, Anaconda, 7 viol. MT 1-hr. std.
C-Hill, Anaconda, 19 viol. MT 1-hr. std.
C-Hill, Anaconda, 2 viol. MT 24-hr. std.
C-Hill, Anaconda, 2 viol. Fed. 24-hr. std.
ASARCO, Inc., E. Helena, 1 viol. Fed. 24-hr. std.
Post Office, Anaconda, 1 viol. Fed. 3-hr. std.
C-Hill, Anaconda, 3 viol. Fed. 3-hr. std.
ASARCO, Inc., E. Helena, 1 viol. Fed. 3-hr. std.

Air Stagnation Advisories:

No Air Stagnation Advisories issued during the month of July.

Laboratory Status:

Total determinations for the month - 204
Total samples for the month - 204

Developments:

Normal repair, calibration and maintenance completed throughout the state.

3. Permits and Tax Credits

Construction Permits:

Applications:

R. J. Studer & Sons Co., gravel crushing plant, Rosebud County
R. J. Studer & Sons Co., asphalt plant, Rosebud County
Ideal Cement, Portland cement storage silos, Trident, Montana
Hilde-Maronick Joint Venture, gravel crushing plant, Toole County
HilMar Asphalt, asphalt plant, Toole County
Hilde Construction Co., Inc., gravel crushing plant, Fergus County
Gus Albert, asphalt plant, Blaine County
Gus Albert, gravel crushing plant, Blaine County
Hilde Construction Co., Inc., gravel crushing plant, Pondera County

Approved:

Earth Builders, Inc., asphalt plant, Custer County
Earth Builders, Inc., asphalt plant, Roosevelt County
Anaconda Aluminum Co., installation of Japanese aluminum smelting technology, Columbia Falls, Montana
Hoerner Waldorf Corp., lime and oxidation system, lime kiln extension, brown stock washer hood emissions, Missoula, Montana
R. J. Studer & Sons Co., gravel crushing plant and asphalt plant, Rosebud Co.
R. J. Studer & Sons Co., gravel crushing plant, Rosebud County
R. J. Studer & Sons Co., asphalt plant, Rosebud County
Ideal Cement, Portland cement storage silos, Trident, Montana
Hilde-Maronick Joint Venture, gravel crushing plant, Toole County
HilMar Asphalt, asphalt plant, Toole County

Tax Credits:

Montana Power Company, Butte, $19,000,000
Puget Sound Power & Light, Butte, $19,000,000
Anaconda Aluminum, Columbia Falls, primary system, foam scrubbers, casting filters, material handling system controls, $4,801,522

4. Variance Status

Current Variances:

The particulate emission report required by the particulate emission variance extension granted to the Anaconda Company in March, 1976, is being prepared. It appears that it will not be ready for presentation to the Board on August 6.

New or Renewed Variances:

None

5. Enforcement Actions

Citations:

None

Notices of Violation:

None

Order for Corrective Action:

ASARCO, Inc., East Helena, zinc fuming plant

Court Actions:

Anna Madsen, open burning, Havre, Hill County Attorney dropped the nine open burning charges he had filed
Clayton Berg, Helena, open burning. Berg has until 8/18/76 to enter a plea.

6. Tepee Burner and Open Burning

Tepee Burner Status:

No. at Start	41
New Starts	0
Shutdowns	0
No. at End	41

Open Burning Burning Permits:

Kalispell	60	Sanders Co.	60
Cascade Co.	10	Yellowstone Co.	31
Lake Co.	8	Rest of State	362
Missoula Co.	5	Total Permits	527

7. Source Tests Performed

Agency Source Tests:

None

Non-Agency Source Tests:

None

8. Field Investigations

Superior Building Supply, Col. Falls, tepee burner, opacity observation
Plum Creek #1 and #3 dryer, Col. Falls, opacity observation
Kal-Mont Lumber and Plywood, Kalispell, tepee burner, opacity observation
Montana Lumber and Plywood, Evergreen, tepee burner, opacity observation

C & C Plywood, Evergreen, dryer/tepee burner, opacity observation
Pack & Co., Kalispell, opacity observation
American Asphalt, Kalispell, opacity observation
Zook Brothers, Libby, Kalispell, opacity observation
Kennedy Stevens, Eureka, opacity observation
American Timber, Olney, opacity observation
Dugdale Construction Co., Helena, plant inspection
Brand S Lumber, tepee burner, plant inspection
Willow Creek Lumber, tepee burner, plant inspection
Burkland Studs, Livingston, tepee burner, documented
Park Lumber, Livingston, tepee burner, documented
Yellowstone Pines, Belgrade, tepee burner, documented
Powerline, Broadview, Grassrange, Glengary
Lewistown street patching operation, inspection
3 highway projects, inspection
Sumitomo Chemical, Nagoya, Japan, aluminum plant
Sumitomo Chemical, Toyana, Japan, aluminum plant

9. Complaints

Belton Livestock, Coram, odor, no cause for action
Flathead Lake excursion boat docking, Somers, emission from boat idling, no cause for action
Shooting Club, Kalispell, noise from shooting, suggested relocation of range
Silas Mast pig farm, Creston, odor, corrected
Ravalli Co. fairgrounds, open burning, corrected
Han Haumberger sawmill, Nissler, blowing sawdust, will place a dust fall nearby to monitor problem
Phillips Petroleum, Great Falls, odor
Brand S Lumber, Livingston, emissions, corrected
Brand S Lumber, Livingston, emissions, noise, follow-up being made
Gilman Construction, Butte, dust from batch plant, follow-up being made

10. Data Processing Services

Ambient Data Summary:

Monthly summary of June air quality data attached.

Emissions Inventory Status:

An update was made to the master file for Missoula County Health Department.

Prevention of Significant Deterioration:

Comments that have been received on draft rule have been sent to Northern Plains Resource Council.

Worked up draft policy statement on interstate cooperation for prevention of significant deterioration.

Modeling:

Copy of modeling work on Colstrip Units 3 and 4 and the stack test results for Unit 1 sent to EPA.

Finished modeling for CO on First Avenue North Bridge in Great Falls, Montana.

Started reviewing HIWAY and APRAC diffusion models as to applicability to Great Falls and as to data required to run the models.

Started contacting sources of meteorological data for the modeling purposes. A summary of known data sources was compiled.

Reviewed and commented on baseline study outline for Circle West prepared by Energy Planning Division.

11. Environmental Impact Statements

Agency Impact Determination:

None

Other Agency EIS's Reviewed:

None

12. Status of Studies, Contracts, and Reports

Quality Assurance Manuals, 95% complete
U.S. Plywood particulate tests, 40% complete
Health Study Phase I - will begin shortly
Health Study Phase II - working on the cost proposal
State Area Source Inventory, PEDCo Contract, Begin in August

13. Schools and Training

Federal Highway Administration Air Quality Monitoring Demonstration Project, July 20-22, 1976

14. Public Hearings and Meetings

Public Hearings:

None

Meetings Attended:

City Officials, Lewistown
Highway Dept. Env. Impact Group, Helena
APCA Convention, Portland
Hoerner Waldorf, Helena
Sumitomo Chemical personnel, Japan
County Commissioners, Flathead & Lake Counties, open burning
Stauffer Chemical Co., Ramsay
Northern Cheyenne redesignation, Helena
Prevention of Significant Deterioration topic, "Missoulian"
EPA, diffusion modeling
Legal Division, PSD, Helena
ASARCO, Inc., Helena
NPRC, Poplar River, Helena
DNR & Water Quality, study plan for Circle West, Helena
Anaconda Aluminum Company, Helena

Intra-Staff Meetings:

Source inventory updating, Helena
Staff meetings, Helena
Legal Division, tax classifications, Helena
Meteorological data, AQB staff, Helena
Legal Division, use of variance filing fees, Helena

15. Public Information Requests

General information - 4
Air Quality Rules - 7
Clean Air Act - 4

16. Fiscal Status

Grants Received:

None

Monthly Expenditures:

Program	Budget	Expenditures July	Expenditures YTD	Funds Remaining
0630	443,090	14,309	14,309	428,781
0631	74,400	---	---	74,400
0633	75,300	4,150	4,150	71,150

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

JUNE 1976

Pollutant: Miscellaneous Continuous Data Units: Parts Per Million

AQCR	AREA Site Location	HIGH READING Current Month	HIGH READING Year-to-date	HIGH READING Running Year	ARITHMETIC AVER. Current Month	ARITHMETIC AVER. No. of Samp. of Data	Comments
	Carbon Monoxide						
140	11th & S. 27th Billings	1.50	8.10	9.00	0.425	6	
	27th & Montana Billings	7.50	27.00	26.50	1.724	6	
	Hydrocarbons						
140	11th & S. 27th Billings	----	----	----	----	----	No longer running
	27th & Montana Billings	7.80	7.80	30.00	2.849	6	
	Laurel E Cenex Billings	4.80	4.80	4.80	1.925	2	
143	BN Colstrip	2.00	2.00	2.10	1.618	6	
	Meth. Hydrocarbons						
143	BN Colstrip	1.70	1.90	1.90	1.681	6	
	Non-Meth. Hydrocarbons						
143	BN Colstrip	0.40	0.40	0.40	0.003	6	1 viol. fed. prim. std.
	Nitrogen Dioxide						
140	27th & Montana Billings	0.06	0.10	0.10	0.034	6	
	Ozone						
140	27th & Montana Billings	0.08	0.09	0.09	0.021	6	1 viol. fed. prim. std.
143	BN Colstrip	0.03	0.09	0.09	0.052	6	

Pollutant: Sulfur Dioxide Units: Parts Per Million

AQCR	AREA Site Location	HIGH READING Current Month	HIGH READING Year-to-date	HIGH READING Running Year	ARITHMETIC AVER. Current Month	ARITHMETIC AVER. Year-to-date	ARITHMETIC AVER. No. of Samp. of Data	Comments
147	East Stack East Helena	0.25	0.39	0.39	0.012	6		1 viol. MT 1-hr. std.
	Microwave East Helena	1.08	1.08	1.08	0.013	6		6 viol. MT 1-hr. std.
	Saddle Mountain E. Helena	0.50	0.58	1.68	0.007	6		2 viol. MT 1-hr. std.
	C-Hill Anaconda	2.54	2.54	2.54	0.016	6		28 viol. MT 1-hr. std.
	Miway Junction Anaconda	0.77	0.78	0.78	0.019	6		2 viol. MT 1-hr. std.
	Mill Cr RR Cross Anaconda	0.51	0.79	0.83	0.015	6		8 viol. MT 1-hr. std.
	Post Office Anaconda	0.38	0.65	0.65	0.005	6		2 viol. MT 1-hr. std.
	Pump House Anaconda	0.40	0.40	0.40	0.006	6		1 viol. MT 1-hr. std.
140	27th & Montana Billings	0.09	0.15	0.15	0.006	6		
	Laurel E Cenex Billings	0.50	0.50	0.50	0.021	3		12 viol. MT 1-hr. std.
	Laurel Water Plt Laurel	0.35	0.35	0.35	0.020	1		6 viol. MT 1-hr. std.
143	BN Colstrip	0.0	0.02	0.02	0.000	6		

Pollutant: Miscellaneous Indicators Units

AQCR	AREA Site Location	HIGH READING Current Month	HIGH READING Year-to-date	HIGH READING Running Year	ARITHMETIC AVER. Current Month	ARITHMETIC AVER. Year-to-date	ARITHMETIC AVER. No. of Samp. of Data	Comments
	DUSTFALL - Tons/Square mile							
141	Mountain States Cascade Co.	19.66	28.16	28.16	17.17	6		
	Fire Station #1 Cascade Co.	15.10	37.73	37.73	20.26	6		
	FLUORIDE PAPERS - micrograms/sq. m./30 days							
142	Mullenberg Powell Co.	----	----	----	----	----		No longer running
	Lahmans Powell Co.	----	----	----	----	----		No longer running
	N Ac Highway Powell Co.	----	----	----	----	----		No longer running
	Ramsay West S. Bow Co.	0.660	1.750	1.750	1.170	6		
	ESE of Stauffer S. Bow Co.	5.420	7.870	7.870	4.508	6		
143	BN Rosebud Co.	----	----	----	----	----		No longer running
	McRae Rosebud Co.	----	----	----	----	----		No longer running
144	Dehlbom's MT Box Flathead Co.	1.410	1.410	1.410	.81	6		
	Teakettle Mtn.#2 Flathead Co.	----	----	----	----	----		No longer running
	Teakettle Mtn.#3 Flathead Co.	19.700	19.700	19.700	3.55	6		
	Teakettle Mtn.#12 Flathead Co.	----	----	----	----	----		No longer running

Pollutant: Miscellaneous Indicators Units:

AQCR	AREA Site Location	HIGH READING Current Month	HIGH READING Year-to-date	HIGH READING Running Year	ARITHMETIC AVER. Current Month	ARITHMETIC AVER. Year-to-date	ARITHMETIC AVER. No. of Samp. of Data	Comments
144	Glacier Park #1 Glac. Nat. Pk.	.460	0.580	0.580	.324	5		
	Glacier Park #2 Glac. Nat. Pk.	.470	0.580	0.580	.358	5		
	FLUORIDE PLATES - micrograms/sq. m./30 days							
142	Durant Canyon Over Lodge Co.	----	----	----	----	----		No longer running
	N Ac Highway Powell Co.	----	----	----	----	----		No longer running
	NW on Hill Powell Co.	----	----	----	----	----		No longer running
	Ramsay West S. Bow Co.	0.920	2.170	2.170	1.380	5		
	ESE of Stauffer S. Bow Co.	5.800	10.920	10.920	5.290	5		
143	BN Rosebud Co.	----	----	----	----	----		No longer running
	McRae Rosebud Co.	0	0	0	0	6		
144	Teakettle #1 Flathead Co.	30.000	30.000	30.000	9.092	6		
	Teakettle #2 Flathead Co.	----	----	----	----	----		No longer running
	Teakettle #4 Flathead Co.	18.670	18.670	18.670	18.670	1		
	Anaconda South Flathead Co.	8.600	8.600	8.600	5.12	5		
	Glacier Park #1 Glac. Nat. Pk.	.720	.720	.720	.427	6		

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

JUNE 1976

Pollutant: Miscellaneous Indicators

Units:

AQCR	AREA Site Location	HIGH READING Current Month	HIGH READING Year-to-Date	HIGH READING Previous Year	ARITHMETIC AVER. Year-to-Date	ARITHMETIC AVER. No. of Mons. of Data	Comments
144	Glacier Park #2 Glac. Nat. Pk.	.720	.810	.810	.497	6	
	SULFATION RATE	microgr	ms/100	sq. cm./day			
140	3/8 mi. NE Comp Yellowstone Co	1.940	4.570	4.570	2.342	5	
	E of Laurel Yellowstone Co	0.810	3.620	3.620	1.402	6	
	Hi-Ball Trucking Yellowstone Co	1.410	1.410	1.410	0.816	5	
141	Stock Car Track Cascade Co.	------	------	------	------	------	Not run in June
	Phillips Ref.NI Cascade Co.	0.117	0.333	0.353	0.127	5	
	Phillips Ref. E Cascade Co.	0.109	0.399	0.399	0.126	5	
142	Microwave Tower Jefferson Co.	0.300	.400	0.680	0.273	6	
	Hwy 48 Junction Deer Lodge Co.	0.300	1.100	1.100	0.522	5	
	Mill Cr Tri RR C Deer Lodge Co.	------	------	------	------	------	No longer running
	Anaconda Airport Deer Lodge Co.	------	------	------	------	------	No longer running
	McGlenns Jefferson Co.	------	------	------	------	------	No longer running
	Kleffner NW Jefferson Co.	------	------	------	------	------	No longer running
143	BN Colstrip	------	------	------	------	------	Not run in June

Pollutants

Units:

AQCR	AREA Site Location	HIGH READING Current Month	HIGH READING Year-to-Date	HIGH READING Previous Year	ARITHMETIC AVER. Year-to-Date	ARITHMETIC AVER. No. of Mons. of Data	Comments
143	McKee Colstrip	0	0	0.040	0	5	
144	Cut Bank #1 Glacier Co.	------	------	------	------	------	No longer running
	Cut Bank #2 Glacier Co.	------	------	------	------	------	No longer running

Pollutant: Total Suspended Particulate

Units: Micrograms/cubic meter

AQCR	AREA Site Location	HIGH READING Current Month	HIGH READING Year-to-Date	HIGH READING Previous Year	GEOMETRIC AVER. Year-to-Date	GEOMETRIC AVER. No. of Mons. of Data	Comments
140	Morton Residence Bighorn County	178	208	255	50.5	6	2 violations fed secondary std.
	Warren Ranch Bighorn County	25	85	85	21.2	6	
	Lockwood School Billings	43	141	141	39.7	6	
	KOHL Station Billings	44	106	106	29.7	6	
	City Hall Billings	66	200	200	65.1	6	
	Grand Ave. Sch. Billings	125	199	199	53.4	6	
	Laurel Jr.Hi.Sch. Yellowstone Co.	45	108	108	30.5	6	
	28th St. West Yellowstone Co.	5398	5398	5398	210.8	1	5 violations fed secondary std.
141	Hospital Roof Great Falls	50	124	218	34.7	6	
	Fire Station #1 Great Falls	99	185	185	61.2	6	
142	Tierney Res. S. Bow County	58	202	202	28.2	6	
	S. Bow Gen. Hosp. Butte	70	173	173	57.1	6	
	Greeley School Butte	97	285	368	93.4	6	
	Atkins Butte	36	306	306	49.8	6	
	Kicher Residence S. Bow County	26	30	54	15.3	6	

Pollutant: Total Suspended Particulate

Units: Micrograms/cubic meter

AQCR	AREA Site Location	HIGH READING Current Month	HIGH READING Year-to-Date	HIGH READING Previous Year	GEOMETRIC AVER. Year-to-Date	GEOMETRIC AVER. No. of Mons. of Data	Comments
142	Hiway Junction Deer Lodge Co.	55	110	110	35.1	6	
	McKinley Res. Granite Co.	82	147	147	18.1	4	
	Microwave Jefferson Co.	32	84	84	18.2	6	
	212 Pacific St. L. & C. Co.	93	171	231	60.5	6	
143	Lone Deer Rosebud Co.	37	37	37	7.8	4	
	BN Rosebud Co.	104	104	129	25.3	6	
	McKee Rosebud Co.	29	86	86	15.0	6	
	Lindsay (107312) Dawson County	28	60	60	13.6	6	
	Ft. Peck McCone County	15	166	166	19.6	6	
	Brandus Pow. Riv. Co.	35	48	48	14.3	6	
	Poplar Roosevelt Co.	29	173	173	21.6	6	
	Littlefield Hill Miles City	27	87	87	20.2	6	
	Scobey Daniels Co.	22	98	98	23.9	5	
	Glendive Dawson County	46	130	130	14.0	6	
	Lindsay (107349) Dawson County	13	38	38	11.8	6	

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA

June 1976

Pollutant: Total Suspended Particulate Units: Micrograms/cubic meter

AREA		HIGH READING			GEOMETRIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Previous Year	Year-to-Date	Number of Days of Data	Comments
144	High School Columbia Falls	87	254	254	61.6	6	
	Dahlbom Res. Kalispell	40	53	68	13.7	6	
	Boonard Res. Kalispell	94	234	234	86.9	6	
	Sverdrup Libby	----	----	----	----	----	Equipment broken down
	Courthouse Missoula Co.	107	386	386	78.7	6	
	Johnson Bell Rd. Missoula Co.	85	176	176	34.3	6	
	Frenchtown Missoula Co.	71	217	217	30.3	6	

Pollutant: Units:

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Previous Year	Year-to-Date	Number of Days of Data	Comments

Pollutant: Units

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Previous Year	Year-to-Date	Number of Days of Data	Comments

Pollutant: Units

AREA		HIGH READING			ARITHMETIC AVER.		
AQCR	Site Location	Current Month	Year-to-Date	Previous Year	Year-to-Date	Number of Days of Data	Comments